NOAA Ship *Rainier*



Hull Number	S221		
Call Sign WTEF			
Home Port			
Newport, OR			
Marine Operation	ns Center		
Pacific (MOC-P)			
Port Office			
None			
Regular Area of	Operations		
Pacific			
General Classific	ation		
Hydrographic Su	ırvey Vessel		
Mailing Address			
NOAA Ship <i>Rair</i>	nier		
Marine Operatio	ns Center,		
Pacific			
2002 SE Marine	Science Drive		

Newport, OR 97365-5229

Contact Information		
IN PORT	AT SEA	
Cellular	VoIP	
206-861-8747 (Ship)		
443-994-3301 (CO)	Iridium	
843-297-1871 (XO)	808-659-0049	
206-661-8603 (OOD)	011-8816-7631-0049	
Land Line (Home Port)		
541-867-8770 (VC)	Inmarsat Mini-M:	
541-867-8771 (VC)		
541-867-8772 (VC)	E-Fax	
541-867-8773 (Fax)	206-260-9158	
	Inmarsat B	
Ship's Email		
Noaa.Ship.Rainier@noaa.gov		

<u>Design</u>		Speed & Endurance			
Designer:	Maritime Administration		Emergency Speed (knots):		
Builder:	Aerojet-General Shipyards, Jacksonville, FL	-	Cruising Speed (knots):		12
Launched:	March 1967		Range (nm):	5	,898
Delivered:	April 1968		Endurance (days):		22
Commissioned:	October 1968		Endurance Constraint:	Stal	oility
Length (LOA - ft.):	231				
Breadth (moulded - ft.):	42	<u>C</u>	Compliment - Maximum		
Draft, Maximum (ft.):	14.3	-	Commissioned Officers/Mates		13
Main Deck to Water:	6.6		Engineers, Licensed		4
Hull Description:	Welded steel/ ice strengthened		Engineer, Unlicensed		6
Displacement:	1,800 tons		Deck		16
			Survey		10
Berthing			Stewards		4
Single Staterooms:	14		Electronic Technicians		1
Double Staterooms:	13		Maintenance		1
Other Staterooms:	6 Quadruple		Total Cre	w	55
Total Berths:	64		Scientis:	ts	8

	Medical Facilities: Food Service Seating Capacity			
	Emergency and first-aid equipment		Wardroom:	12
	Ship's Officer's Mess:	11		
	vessel personnel. Eight (8) trained MPICs (medical person in charge)		Technician's Mess	18
			Crew's Mess	18
	aboard			

Navigational Equipment (Ship's Use)	Type (Make/Model/Amount/Location)	
Radars (X and S Band)	1 Furuno X-Band and 1 Furuno S-Band	
GPS and DGPS	2 Trimble DMS-212L DGPS Receivers, 1 CSI Wireless MBS-3S DGPS Receiver	
Gyro Compass	2 SG Brown Meridian Gyro Compasses	
Deepwater and Shallow Navigational echosounders	Furuno FE-700 Echosounder	
ECDIS	TRANSAS 4000	

Laboratory Spaces and other Scientific Spaces			
Type Location ft. ² Description: (Available Services and/or			
			Connections, counter space, etc.)
Wet Lab	D-09-102	240	Supports oceanographic and diving
			operations

Sc	Scientific Data Collection Systems and Supportable Operations				
7	Гуре	Brief Description (where equipment is			
		involved, please state what type (i.e.			
		ME70, EK60, ES60, Seabird, etc.)			
l l	Multibeam Equipped for	4 Reson 7125 Dual-frequency Multibeam Sonar			
<u> </u>	Hydrographic Surveys	Systems			
l l	Multibeam Equipped for	1 Reson 8125 Multibeam Sonar System			
<u> </u>	Hydrographic Surveys				
l l	Multibeam Equipped for	1 Konsberg EM-710 Multibeam Sonar System			
<u> </u>	Hydrographic Surveys				
	Conductivity, Temp., Depth (CTD)	2 SeaCat SBE-19 CTD's			
\	With Water Samples				
	Conductivity, Temp., Depth (CTD)	4 SeaCat SBE-19+ CTD's			
\	With Water Samples				
	Conductivity, Temp., Depth (CTD)	2 Digibar Pro Sound Velocimeters			
\	Without Water Samples				
	Conductivity, Temp., Depth (CTD)	4 SVP-71 Velocimeters			
\	Without Water Samples				
	Conductivity, Temp., Depth (CTD)	1 SVP-70 Velocimeter			
\	Without Water Samples				
5	Scientific Computer System	See Scientific Data Collection Systems and			
E	Equipped	Supportable Operations			
	Dive Team Equipped	Supports working dives, including tide gauge			
		installations, as well as emergency and routine			
		ship repair and maintenance.			

DATA COLLECTED BY SHIP'S SCIENTIFIC COMPUTER SYSTEM (SCS) IN THE STANDARD CONFIGURATION			
Description	Units	Data Source	
DPT - Depth of Water with transducer offset	XXX	XXX	
ZDA - Time and Date (UTC. d. m, yr, TZ)			
VWR - Relative wind speed and angle			
GLL - Geographic Position (Lat/Lon)			
OSD - Own Ship Data (Ship course & speed)			
HDG - Heading (Deviation and Variation)			
MTW - Mean Temp. for Water			
Air Temperature			
Wet Bulb			
Relative Humidity			

DECK EQUIPMENT:			
Crane, Telescoping	g Boom	Crane, Fixed Lengt	th
Quantity:	2	Quantity:	1
Manufacturer:	North Pacific	Manufacturer:	Skagit
	Crane Co.		
Drive:	Electrohydraulic	Drive:	Electric
Boom Length (ft.):	33	Boom Length (ft.):	40
Lifting Cap. (lbs.):	2,030	Lifting Cap. (lbs.):	5,000
Location:	E-Deck Forward,	Location:	E-Deck Aft,
	Port & STBD		Amidships
Boat Davit 1		Boat Davit 2	
Quantity:	1	Quantity:	1
Manufacturer:	VestDavit	Manufacturer:	VestDavit
Hoisting Capacity	7,900 lbs.	Hoisting Capacity	14,000 lbs.
Location	F-Deck	Location	E-Deck
Boat type used	FRB	Boat type used	Launch
Boat Davit 3,4,5		Boat Davit 6	
Quantity:	3	Quantity:	1
Manufacturer:	VestDavit	Manufacturer:	VestDavit
Hoisting Capacity	19,800 lbs.	Hoisting Capacity	19,266 lbs.
Location	E-Deck	Location	E-Deck
Boat type used	Launch	Boat type used	Launch
MVP Towfish		Anchor - Bow	
Quantity:	1	Quantity	2
Manufacturer:	ODIM	Туре	Bower Stockless
Drive:	Electric	Weight (lbs.)	4850
Sensor:	CTD	Port Anchor Chain	165
	טוט	Length (fathoms)	
Location:	Aft Mast	STBD Anchor Chain	165
		Length (fathoms)	
		Quantity	2

BOATS	OATS (Normally Equipped)				
	Туре	Horsepower	Length Over All (Ft)	Max. Persons	
RA-1	Rescue Boat (SOLAS Approved)	225	22	6	
	Data collection equipment and/or special features.		and deck, 2-person alu ains fitted with scupper tro		
RA-2	Survey Launch	350	25	6	
	Data collection equipment and/or special features.	particularly usefu in the water or u is shoreline surve GPS Receivers w allowing exception	soft riding, stable vesse I for personnel working with nder the vessel. The intendery; it is equipped with 2 Trimith TSCe Data Collectors. To onal maneuverability over traditional propeller driven	objects close alongside ed use is for this vessel able ProXRS "backpack" the vessel is jet driven, and shallow obstructions	
RA-3	Survey Launch	490	29	10	
	Data collection equipment and/or special features.	7125 sonar (200 (455 kHz), and Additionally, laun	ultibeam acquisition system kHz and 400 kHz), tilted Re Applanix PosMV position a ch is equipped with a Fur DGPS, a SeaBird CTD, and a	eson SeaBat 8125 sonar and orientation system. Tuno GR-80 Differential	
RA-4	Survey Launch	490	29	10	
	Data collection equipment and/or special features.	7125 sonar (200 orientation system	ultibeam acquisition system kHz and 400 kHz), and Appla m. Additionally, launch is e I Beacon Receiver DGPS, a S	anix PosMV position and equipped with a Furuno	
RA-5	Survey Launch	490	29	10	
	Data collection equipment and/or special features.	7125 sonar (200 orientation system	ultibeam acquisition system kHz and 400 kHz), and Appla m. Additionally, launch is e I Beacon Receiver DGPS, a S	anix PosMV position and equipped with a Furuno	
RA-6	Survey Launch	490	29	10	
	Data collection equipment and/or special features.	7125 sonar (200 orientation system	ultibeam acquisition system kHz and 400 kHz), and Appla m. Additionally, launch is e I Beacon Receiver DGPS, a S	anix PosMV position and equipped with a Furuno	
RA-7	SAFE Boat	150	19	8	
	Data collection equipment and/or special features.	temperatures and with pure polyure	olyethylene foam, particula d in the presences of petro thane for UV protection and	pleum products. Coated abrasion resistance.	
RA-8	SeaArk	200	19	8	
		Hull design is adv	antageous for its shallow dra	ift and inherent stability	

Miscellaneous (not previously stated)			
Type AUSs	Description Capable of deployment and recovery of small unmanned aerial		
	systems such as the ScanEagle. No UAS systems are currently carried by Rainier.		